Daikin debuts natural Ice Cool Spot at World Expo 2025 Osaka

**Brussels, 6 September 2024** – At Expo 2025 in Osaka, Kansai, Japan Daikin will set up a brand-new ‘Ice Cool Spot’, a rest area equipped with an air conditioning system using natural energy [1], as a relief measure against the summer heat.

A group of people walking around a building

Description automatically generatedBecause the World Expo 2025 will be open primarily in the summer, there will be measures at the venue to contend with the heat. As a leading HVAC-R manufacturer, Daikin has been developing a sustainable air conditioning system that is environmentally conscious and utilizes natural energy to bring cool conditions and comfort to the Expo visitors from around the world.

**Inspired by historical icehouses**

Ice Cool Spot was inspired by historical icehouses where ice and snow were stored for use as a cold storage facility. For this building, ice is generated by ice thermal storage air conditioning [2] technology to provide radiant cooling [3] comparable to the coolness experienced under the shade of a tree. Environmentally conscious measures, such as using electricity generated by solar power, will be incorporated to produce the ice. The walls adopt a traditional Japanese wood lattice for an open structure that gives visitors a sense of being outdoors, while the roof is equipped with highly aesthetic solar panels in a design that harmonizes with nature.

Ice Cool Spot will be built in the Progress Plaza, which is located to the southwest of the Expo Hall, and visitors will be able to use it anytime during the Expo.

As a company committed to “Perfecting the Air,” Daikin aims to provide Expo visitors with the opportunity to experience the potential and value of air. Through its participation in the Expo, a testing ground for the future society, Daikin has been taking on the challenge of developing an air conditioning system for the future utilizing natural energy sources such as solar power and the radiant cooling of ice.

[1] Term used to describe energy obtained from natural phenomena such as the sun, geothermal heat, wind and tidal current

[2] A heat storage air conditioning system that uses ice in air conditioners generated by electricity at night

[3] Phenomenon in which heat transfer occurs from a high-temperature object (person) to a low-temperature object (ice) via infrared rays and can be experienced when a person loses heat and feels cool

**Air conditioning system utilises natural energy**

Ice Cool Spot employs an environmentally conscious air conditioning system that combines the ice thermal storage technology that Daikin has cultivated in its air conditioners with solar power generation. Radiant cooling is obtained from the surrounding ice panels installed inside Ice Cool Spot. Maintaining a surface temperature of 3-8℃, the ice panels deliver a cool sensation of comfort that feels like being inside an actual icehouse. Made of transparent acrylic material, the surface of the ice panels enables visitors to see the ice walls up close to gain a visual sense of the cooling effect.

A room with a wooden structure

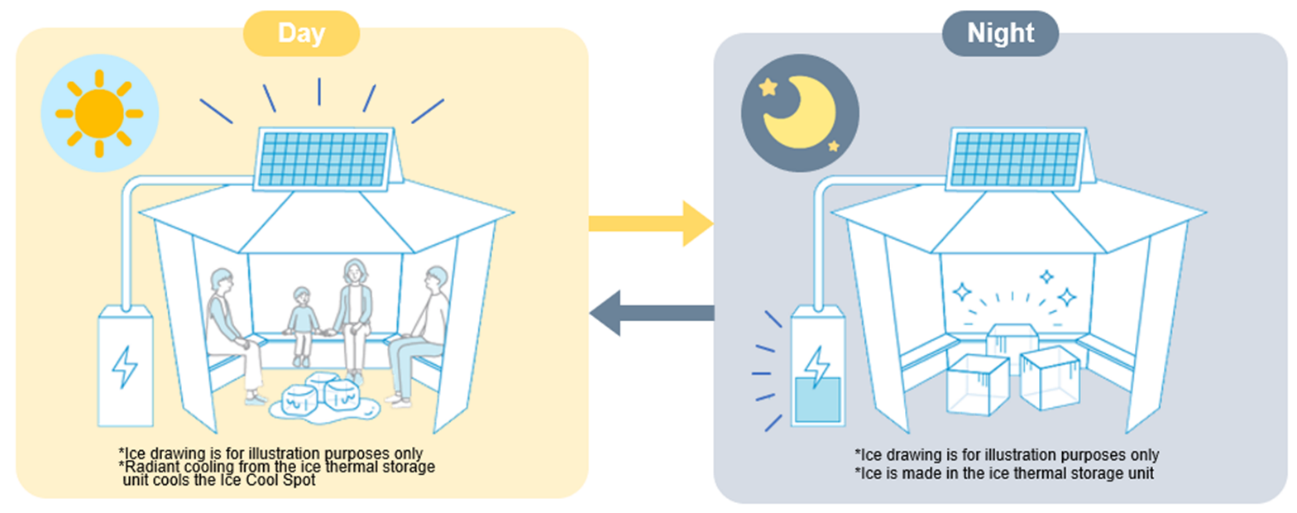
Description automatically generated

テキスト が含まれている画像

自動的に生成された説明

*Ice panels installed in Ice Cool Spot*

Part of the electricity used by Ice Cool Spot will be produced by its solar panels. The electricity generated during the day is stored in a battery to make ice at night when the temperature is cooler.



*Sustainable air conditioning system using solar power*

**Structure and design harmonize with nature**

Benches placed inside Ice Cool Spot allow seating for around 30 people, and the high, sloping ceiling of 3.3 to 3.7 meters and the extensive use of wood create a relaxing interior space. Traditional Japanese wood lattice is used for the interior and exterior walls for an open structure with no boundaries between indoors and outdoors. Equipped with green solar panels, the roof blends in with the surrounding trees for a design that beautifully harmonises with nature when seen from above and serves as a symbol of Osaka Expo 2025.

A group of people in a room

Description automatically generated**A building with a solar panel

Description automatically generated**

*Solar panels designed in harmony with nature*

*Open space with no boundaries between indoors and outdoors*

**Where to find the Ice Cool Spot**

Daikin’s Ice Cool Spot will be installed at the Progress Plaza, located in the southwest of the Expo site, which will be available for use anytime during the Expo.



**[Ice Cool Spot]**

Location: 1-chome Yumeshima, Konohana Ward, Osaka City, Osaka Prefecture

Total floor area: Approx. 70m2

Structure: Wood

**About Daikin Europe N.V.**

The Daikin Europe group is a leading provider of heating, cooling, ventilation, air purification and refrigeration (HVAC-R) technology in Europe, Middle East, and Africa (EMEA). Daikin designs, manufactures, and offers customers a broad portfolio of products, maintenance services as well as turnkey solutions for residential, commercial, and industrial purposes. To date, Daikin Europe has over 13,800 employees across 59 subsidiaries. It has 14 manufacturing sites in EMEA - Belgium, the Czech Republic, Germany, Italy, Spain, Austria, the United Kingdom, Turkey, the United Arab Emirates. Headquartered in Ostend (Belgium) for over 50 years, the Daikin Europe group is a subsidiary of the global group Daikin Industries.

**About Daikin Industries Ltd.**

Daikin Industries is a worldwide leader in heat pump, air conditioning, and air filtration technology with more than 98,000 employees. Founded in Osaka in 1924, it is the only manufacturer in the world that develops and manufactures HVAC-R equipment, as well as compressors and refrigerants in-house. Daikin was named one of the world’s top 100 most innovative companies by Clarivate (UK) and LexisNexis (USA), recognized for its leadership in technology research and intellectual property patents. For its fiscal year 2023 Daikin reported a record sales result of € 28 billion sales (1 April 2023 – 31 March 2024).

Read more on [www.daikin.eu](http://www.daikin.eu) and www.daikin.com.

**Media Contacts Daikin Europe N.V.**

Sofie Sap - T.: +32 472 580482 Mail: [sap.s@daikineurope.com](mailto:sap.s@daikineurope.com)

Daisuke Kakinaga - T.: +32 465 462321 Mail: [kakinaga.d@bxl.daikineurope.com](mailto:kakinaga.d@bxl.daikineurope.com)